PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 445/04392	FOR FURTHER A	CTION	See Form PCT/IPEA/416			
International application No. PCT/IL2005/000304	International filing date 17.03.2005	(day/month/year)	Priority date (day/month/year) 18.03.2004			
International Patent Classification (IPC) or no INV. A61F2/00	ational classification and I	PC .				
Applicant						
CONTIPI LTD. et Al.						
This report is the international pre Authority under Article 35 and train	eliminary examination rensmitted to the applicar	port, established by this t according to Article 36	s International Preliminary Examining 3.			
2. This REPORT consists of a total	of 10 sheets, including	this cover sheet.				
3. This report is also accompanied b	y ANNEXES, comprisi	ng:				
a. 🛛 sent to the applicant and to	-	_	as follows:			
	on, claims and/or drawi ng rectifications authori	ngs which have been a	mended and are the basis of this report see Rule 70.16 and Section 607 of the			
☐ sheets which supersed beyond the disclosure Supplemental Box.	de earlier sheets, but w in the international app	hich this Authority cons lication as filed, as indi	iders contain an amendment that goes cated in item 4 of Box No. I and the			
	Pursou only) a total of (i	adiaata tuna and numba	or of algoritania corrier(a)\			
 b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions). 						
4. This report contains indications re	elating to the following it	ems:				
☐ Box No. I Basis of the rep	ort					
☐ Box No. II Priority						
	ent of opinion with reas	gard to novelty, inventive step and industrial applicability				
☐ Box No. IV Lack of unity of	•	and to horony, involute stop and industrial applicability				
☐ Box No. V Reasoned state			r, inventive step or industrial nent			
☐ Box No. VI Certain docume	ents cited					
☑ Box No. VII Certain defects	in the international app	lication				
<u> </u>	ations on the internation					
Date of submission of the demand		Date of completion of thi	is report			
18.01.2006		06.07.2006				
Name and malling address of the internation	nal	Authorized officer	asches Potoniam.			
preliminary examining authority: European Patent Office - P.B NL-2280 HV Rijswijk - Pays E Tel. +31 70 340 - 2040 Tx: 31 Fax: +31 70 340 - 3016	Bas	Mary, C Telephone No. ÷31 70 3	· open Production			
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International application No. PCT/IL2005/000304

	Box No. I	Basis of the report	
1.	With regar	rd to the language, thi	s report is based on
	⊠ the in	ternational application	in the language in which it was filed
	of a tr □ int □ pu	ranslation furnished for ernational search (und ablication of the interna	onal application into , which is the language r the purposes of: ler Rules 12.3(a) and 23.1(b)) tional application (under Rule 12.4(a)) examination (under Rules 55.2(a) and/or 55.3(a))
2.	have beer	n furnished to the rece	the international application, this report is based on (replacement sheets which iving Office in response to an invitation under Article 14 are referred to in this e not annexed to this report):
	Descriptio	n, Pages	
	1-19		as originally filed
	Claims, Nu	ımbers	
	1-31		filed with telefax on 22.06.2006
	Drawings,	Sheets	
	1/19-19/19		as originally filed
	□ a seq	uence listing and/or ar	ny related table(s) - see Supplemental Box Relating to Sequence Listing
3.	☐ the ☐ the ☐ the	e description, pages e claims, Nos. e drawings, sheets/figs e sequence listing <i>(sp</i>	
4.	had not be Suppleme the the	een made, since they ental Box (Rule 70.2(c) e description, pages e claims, Nos. e drawings, sheets/figs e sequence listing (sp	6
	* If i	tem 4 applies, s	ome or all of these sheets may be marked "superseded."

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International application No. PCT/IL2005/000304

	k No. III Non-establishment of opinion with regard to novelty, inventive step and industrial blicability
	e questions whether the claimed invention appears to be novel, to involve an inventive step (to be non- ious), or to be industrially applicable have not been examined in respect of:
	the entire international application,
	claims Nos. 26-29
bec	ause:
	the said international application, or the said claims Nos. relate to the following subject matter which does not require an international preliminary examination (specify):
	the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):
	the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed (specify).
\boxtimes	no international search report has been established for the said claims Nos. 26-29
	a meaningful opinion could not be formed without the sequence listing; the applicant did not, within the prescribed time limit:
	☐ furnish a sequence listing on paper complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Preliminary Examining Authority in a form and manner acceptable to it.
	☐ furnish a sequence listing in electronic form complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Preliminary Examining Authority in a form and manner acceptable to it.
	pay the required late furnishing fee for the furnishing of a sequence listing in response to an invitation under Rules 13 <i>ter</i> .1(a) or (b) and 13 <i>ter</i> .2.
	a meaningful opinion could not be formed without the tables related to the sequence listings; the applicant did not, within the prescribed time limit, furnish such tables in electronic form complying with the technical requirements provided for in Annex C-bis of the Administrative Instructions, and such tables were not available to the International Preliminary Examining Authority in a form and manner acceptable to it.
	the tables related to the nucleotide and/or amino acid sequence listing, if in electronic form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.
	See separate sheet for further details

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International application No. PCT/IL2005/000304

	Вох	(No. IV	Lack of unity of inve	ention					
1.		In respo limit:	nse to the invitation to	restric	t or pay addi	tional fees, the applicant has, within the applicable time			
		⊠ restri	cted the claims.						
		☐ paid	additional fees.						
		☐ paid	additional fees under p	rotest	and, where	applicable, the protest fee.			
		☐ paid	additional fees under p	rotest	but the appli	cable protest fee was not paid.			
		☐ neith	\square neither restricted the claims nor paid additional fees.						
2.			hority found that the re 1, not to invite the app			of invention is not complied with and chose, according to pay additional fees.			
3.	This	s Authorit	y considers that the re	quiren	nent of unity	of invention in accordance with Rules 13.1, 13.2 and 13.3			
	\boxtimes	complie	d with.						
		not com	plied with for the follow	/ing re	asons:				
4. Consequently, this report has been established in respect of the following parts of the international application:						pect of the following parts of the international application:			
		all parts	-						
	☑ the parts relating to claims Nos. 1-25, 30-31.								
		x No. V	Reasoned statemen			(2) with regard to novelty, inventive step or industrial g such statement			
1.	Sta	tement							
	Nov	velty (N)		Yes: No:	Claims Claims	1-25, 30-31			
				NO.	Ciairis				
	Inve	entive ste	ep (IS)	Yes:	Claims	1-25, 30-31			
				No:	Claims				
	Ind	ustrial ap	plicability (IA)	Yes:	Claims	1-25, 30-31			
				No:	Claims				
2.	Cita	ations an	d explanations (Rule 7	0.7):					

see separate sheet

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International application No. PCT/IL2005/000304

Box No. VII Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

see separate sheet

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Re Item III.

Rule 39.1(iv) and Rule 67.1 (iv) PCT - Method for treatment of the human or animal body by therapy: Claims 26-29 disclose a method of using an apparatus for the treatment of urinary incontinence.

Re Item IV.

The separate inventions/groups of inventions are:

- Claims 1-25: an apparatus for treating urinary incontinence.
- Claims 30-31 an apparatus for inserting a vaginal device

They are not so linked as to form a single general inventive concept (Rule 13.1 PCT) for the following reasons: the document US5785640 cited in our search report discloses an apparatus for treating urinary incontinence. Beyond this prior art, the special technical features (in the meaning of Rule 13.2 of the P.C.T) left in the independant claims 1, 16, 23, 30 of the application are:

- In independant claims 1, 16, 23: none.
- In independant claim 30: an apparatus for inserting a vaginal device.

No same or correspondent special technical feature can be found between claims 1, 16, 23 and claim 30. There is therefore no technical relationship involving same or corresponding special technical features between claims 1, 16, 23 and claim 30. The inventions defined in the above-mentioned claims are not linked by a common inventive concept.

Re Item V.

- 1 Reference is made to the following documents:
 - D1: US 5 785 640 A (KRESCH ET AL) 28 July 1998 (1998-07-28)
 - D2: US 5 483 976 A (MCLAUGHLIN ET AL) 16 January 1996 (1996-01-16)
 - D6: US5788664 (SCALISE) 4 August 1998 (1998-08-04)

 This document was not cited in the international search report. A copy of the document is appended hereto.

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2 INDEPENDENT CLAIM 1

Document D1 is regarded as being the closest prior art to the subject-matter of claim 1, and discloses (the references in parentheses applying to this document) (see column 4, line 40 to column 8, line 59): an apparatus (4) for treating urinary incontinence, comprising: a node; a support section (6, 8) adapted for providing urethral support attached to said node; and an anchoring section (10, 12) adapted for resisting movement of said apparatus attached to said node; wherein said node is no longer than 30% of the entire length of said apparatus comprising said node, support section and said anchoring section together.

The subject-matter of claim 1 thus differs from this disclosure in that the apparatus is arranged around a central axis and that the node is located on the central axis. Therefore the subject-matter of claim 1 is new and meets the requirements of Art.33(2)PCT.

The specific geometry of the device disclosed in claim 1 allows a smaller apparatus, more flexible and more comfortable. None of the available prior art documents suggests an apparatus arranged around a central axis with a node located on the central axis.

Therefore claim 1 involves an inventive step and meets the requirements of Art.33(3)PCT.

The device disclosed in claim 1 is industrially manufacturable and therefore the claim meets the requirements of Art. 33(4)PCT.

Claims 2 to 15 refer to further embodiments of the device of claim 1 and in view of that meet the requirements of Art. 33(2), (3), and (4) PCT as well.

3 INDEPENDENT CLAIM 16

Document D2 is regarded as being the closest prior art to the subject-matter of claim 16, and discloses (the references in parentheses applying to this document): an apparatus (10) for treating urinary incontinence, comprising a support (4) section; and an extending insert (12) adapted to adjust the diameter of said support section.

The subject-matter of claim 16 thus differs from this disclosure in that the device is

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adapted for providing urethral support; that the support section "uses a plurality of outwardly extending arms", and that the insert is adapted to increase the diameter of the support section "by outwardly urging the arms".

Therefore the subject-matter of claim 16 is new and meets the requirements of Art.33(2)PCT.

The device disclosed in D2 does not have arms per se but extensions and is an actuated urethral plug. The device disclosed in claim 1 allows, by supporting the urethra and not blocking it, to prevent incontinence while to urinate is still possible without having to remove the device. Moreover the device has a variable geometry and can be adapted to a specific anatomy. None of the available prior art documents suggests a combination of these specific technical features.

Therefore claim 16 involves an inventive step and meets the requirements of Art.33(3)PCT.

The device disclosed in claim 16 is industrially manufacturable and therefore the claim meets the requirements of Art. 33(4)PCT.

Claims 17 to 22 refer to further embodiments of the device of claim 16 and in view of that meet the requirements of Art. 33(2), (3), and (4) PCT as well.

4 INDEPENDENT CLAIM 23

The document D1 is regarded as being the closest prior art to the subject-matter of claim 23, and discloses (the references in parentheses applying to this document): an apparatus for treating urinary incontinence, comprising: a body (4) provided with a plurality of arms adapted for rendering urethral support for treating incontinence when inserted in a vagina; and a device displacer (128).

The subject-matter of claim 23 thus differs from this disclosure in that the device also comprises "an arm collapser" and that the device displacer is "coupled to the arm collapser which when pulled causes the arms to collapse and the apparatus to displace".

Therefore the subject-matter of claim 23 is new and meets the requirements of Art.33(2)PCT.

The arm collapser, linked to the device displacer allow to reduce the device's profile

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within the vagina and an easier removal. None of the available prior art documents suggests a combination of these specific technical features.

Therefore claim 23 involves an inventive step and meets the requirements of Art.33(3)PCT.

The device disclosed in claim 23 is industrially manufacturable and therefore the claim meets the requirements of Art. 33(4)PCT.

Claims 24 to 25 refer to further embodiments of the device of claim 23 and in view of that meet the requirements of Art. 33(2), (3), and (4) PCT as well.

5 INDEPENDENT CLAIM 30

The document D6 is regarded as being the closest prior art to the subject-matter of claim 30, and discloses (the references in parentheses applying to this document)(see column 3, lines 19-42): an apparatus (100) for inserting a vaginal device comprising an enclosure (102) for containing said vaginal device and a stopper (106), wherein said stopper (106) prevents over insertion and wherein said stopper is adjustably positioned on an exterior of said enclosure (102).

The subject-matter of claim 30 thus differs from this disclosure in that the apparatus is for inserting an "expanding and anchoring" vaginal device "having a preferred deployment location".

Therefore the subject-matter of claim 30 is new and meets the requirements of Art.33(2)PCT.

Document D6 discloses an applicator for a suppository (smaller element), not an expanding and anchoring device which has to be deployed at an appropriate depth within the vagina to render treatment effective. None of the available prior art documents suggests a combination of these specific technical features.

Therefore claim 30 involves an inventive step and meets the requirements of Art.33(3)PCT.

The device disclosed in claim 30 is industrially manufacturable and therefore the claim meets the requirements of Art. 33(4)PCT.

Claim 31 refers to further embodiments of the device of claim 30 and in view of that

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meets the requirements of Art. 33(2), (3), and (4) PCT as well.

Re Item VII.

Independent claims 1, 16, 23, 30 are not in the two-part form in accordance with Rule 6.3(b) PCT, which in the present case would be appropriate, with those features known in combination from the prior art being placed in the preamble (Rule 6.3(b)(i) PCT) and with the remaining features being included in the characterising part (Rule 6.3(b)(ii) PCT).

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CLAIMS

- 1. An apparatus (100) <u>arranged around a central axis (150)</u> for treating urinary incontinence, comprising:
 - a non-organ supporting node (108) located on the central axis (150);
 - a support section (110) adapted for providing urethral support attached to said node; and,
 - an anchoring section (106) adapted for resisting movement of said apparatus attached to said node;

wherein said node is no longer than 30% of the entire length of said apparatus comprising said node (108), support section (110) and said anchoring section (106) together.

- 2. An apparatus of claim 1 wherein said node (108) is no longer than 20% of the entire length of said apparatus for treating urinary incontinence.
- 3. An apparatus of claim 2 wherein said node (108) is no longer than 15% of the entire length of said apparatus for treating urinary incontinence.
- 4. An apparatus of any of claims 1-3 wherein said support section (110) is provided with at least 2 supporting arms (114).
- 5. An apparatus of any of claims 1-3 wherein said anchoring section (106) is provided with at least 2 anchoring arms (112).
- 6. An apparatus of any of claims 1-5 further comprising a cover (900).
- 7. An apparatus of claim 6, wherein said cover (900) substantially encapsulates said node (108), support section (110) and said anchoring section (106).
- 8. An apparatus of any of claims 1-7 wherein at least said support section (110) and said anchoring section (106) are flexible.

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- 9. An apparatus of any of claims 1-7 wherein at least said node (108) is flexible.
- 10. An apparatus of any of claims 1-9 further comprising a device displacer (902).
- 11. An apparatus of claim 10 wherein said device displacer (902) is attached to said support section (110).
- 12. An apparatus of any of claims 4-11 further comprising support struts (320) interlinking said supporting arms (114).
- 13. An apparatus of any of claims 1-12 further comprising an applicator (1000) adapted to insert said apparatus into a vagina.
- 14. An apparatus of any of claims 1-13, wherein the apparatus (100) is symmetrically arranged around the central axis (150).
- 15. An apparatus of any of claims 1-14, wherein the length of the apparatus (100) is 50mm or less.
- 1416. An apparatus (400) for treating urinary incontinence, comprising:
- a support section (410) adapted for providing urethral support using a plurality of outwardly extending arms (414); and
 - an extending insert (800) adapted to increase the diameter of said support section (410) by movement towards a cervix outwardly urging the arms (414).
- 1517. An apparatus of claim 14-16 further comprising a node (408) an anchoring section (406) adapted for resisting movement of said apparatus.
- 1618. An apparatus of either of claims 14-16 or 15-17 further comprising a cover (900).
- 1719. An apparatus of claim 16-18 wherein said cover (900) substantially encapsulates said node (408), support section (410), said anchoring section (406) and extending insert (800).

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- 1820. An apparatus of any of claims 1416-17-19 further comprising a device displacer (902).
- 1921. An apparatus of claim 18-20 wherein said device displacer (902) is attached to said support section (410).
- 2022. An apparatus of any of claims 1416-19-21 further comprising an applicator (1000) adapted to insert said apparatus into a vagina.
- 2123. An apparatus for treating urinary incontinence, comprising: a body (400) provided with a plurality of arms (414) adapted for rendering urethral support for treating incontinence when inserted in a vagina; an arm collapser (900); and,
- a device displacer (902) coupled to the arm collapser (900) which when pulled causes: a) the arms (414) to collapse; and b) for providing movement to said the apparatus to displace.
- 2224. An apparatus according to claim 21-23 wherein said device displacer (902) is a string.
- 2325. An apparatus according to claim 22-24 wherein said apparatus is flexible and distorted by said string.
- 2426. A method of using an apparatus for the treatment of urinary incontinence, comprising:

inserting said incontinence treating apparatus (100); and, deploying said incontinence treating apparatus (100) in a position to render midurethral support.

2527. A method according to claim 24-26 wherein inserting is facilitated by an applicator (1000).

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- 2628. A method according to claims 24-26 or 25-27 further comprising removing said apparatus.
- 2729. A method according to any of claims 2426-26 28 wherein said removing is facilitated by a device displacer (902).
- 2830. An apparatus (1050) for inserting an expanding and anchoring vaginal device having a preferred deployment location, comprising:
 - an enclosure for containing said vaginal device; and
 - a stopper (1058), wherein said stopper (1058) prevents over insertion and wherein said stopper (1058) is adjustably positioned on an exterior of said enclosure.
- 2931. An apparatus according to claim 28-30 further comprising a plurality of selectable positions located on said apparatus such that, upon adjustably positioning said stopper (1058) in one of said positions, insertion of said apparatus into said vagina up to said stopper (1058) will result in the apparatus being in an appropriate position within said vagina for deployment.

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